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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/889,932	09/17/2001	Hendrikus Jan Kapaan	110191	4418	
25944	7590 03/26/2003	•			
OLIFF & BERRIDGE, PLC			. EXAMINER		
P.O. BOX 19928 ALEXANDRIA, VA 22320			KRAMER,	KRAMER, DEVON C	
			ART UNIT	PAPER NUMBER	
		,	3683		
		ŕ	DATE MAIL ED: 03/26/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/889,932	KAPAAN ET AL.				
Office Action Summary	Examiner	Art Unit				
	Devon C Kramer	3683				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).  Status						
1) Responsive to communication(s) filed on 29	November 2002 .					
	nis action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims						
· _						
4) Claim(s) 1-33 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6) Claim(s) 1-3,7,10,11 and 30-33 is/are rejected.						
7) Claim(s) <u>4-6 8-10 12-28</u> is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.  Application Papers						
9)☐ The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
<ul> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) ☐ The translation of the foreign language provisional application has been received.  15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal F	r (PTO-413) Paper No(s) Patent Application (PTO-152)				

PTO-326 (Rev. 04-01)

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#### **DETAILED ACTION**

## Claim Objections

1) Claim 27 is objected to because of the following informalities: The preliminary amendment cites "Please replace claims 5, 7, 10-11, 18-19, 21 and 26-32". Please note that a new claim 27 was not presented in the amendment. The examiner has not examined claim 27 on its merits because it is unclear if applicant intended to cancel this claim. Appropriate correction is required.

#### Claim Rejections - 35 USC § 102

2) The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3) Claims 1-3, 7, 10-11, 30, and 33 are rejected under 35 U.S.C. 102(b) as being anticipated by Kingston et al (5931268).

In reference to claims 1 and 33, Kingston et al provides an actuator, comprising: a housing (40) accommodating a screw mechanism (43); a drive including a motor (42); the screw mechanism including a nut and a screw one of which is rotatably supported relative to the housing (col 4 lines 1-30), such that upon relative rotation of the nut and the screw a linear movement of one of the nut and screw is obtained; and a rotatable component of the drive is rotatably supported on the screw which is rotatably supported relative to the housing; and wherein the rotatable component of the drive is a rotor of the motor.

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In reference to claims 2 and 3, Kingston et al provides an actuator where the screw is rotatably supported with respect to the housing by a support or auxiliary bearing (46) through drive shaft (44).

In reference to claim 7, Kingston et al provides an actuator where the outer ting of the bearing supports a rotatable sleeve (44) which is in connection with the rotatable component of the drive. Please note that the portion of element 44 is considered a sleeve because it is annular and fits over the outer ring of the bearing.

In reference to claim 10, Kingston et al provides an actuator where the sleeve is connected to the rotor of the motor.

In reference to claim 11, Kingston et al provides an actuator where the nut and the screw are rotatably supported both according to an axis parallel with respect to the linear movement, and according to at least on axis transverse with respect to the linear movement.

In reference to claim 30, the examiner takes official notice that elements of gearing and parts under a high load are conventionally formed by hard turning.

### Claim Rejections - 35 USC § 103

- 4) The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5) Claim 31 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kingston et al in view of Chareire (5293966).

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It is known in the art to produce load bearing parts of high strength material.

Kingston et al is silent to the material used to produce the components of the device.

Chareire teaches the use of producing load bearing parts out of a carbon.

It would have been obvious to one of ordinary skill in the art at the time of the invention to have provided the load bearing parts of Kingston et al with carbon material as taught by Chareire, since it has been held to be within the general skill of a worker in the art to select a known material on the basis of its suitability for the intended use as a matter of obvious design choice. In re Leshinb, 125 USPQ 416.

6) Claim 32 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kingston et al in view of Tanaka.

It is known in the art to use an encoder to measure rotation. Kingston et al lacks the teaching of an encoder for measuring relative rotation.

Tanaka teaches the use of an encoder for measuring relative rotation.

It would have been obvious to one of ordinary skill in the art at the time of the invention to have provided the actuator of Kingston et al with the encoder as taught by Tanaka in order to measure the relative position of the internal parts.

# Allowable Subject Matter

7) Claim 4-6, 8-9, and 12-29 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

### Response to Arguments

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Applicant's arguments filed November 29, 2003 have been fully considered but they are not persuasive. Applicant states that Kingston et al (5931268) provides an output shaft 44, and then states, "This output shaft 42". Item 42 is the electrical motor, not the output shaft. Applicant argues that the spindle 43 is not rotatable. The spindle is rotatable and moved axially through the nut. The output shaft or nut, is clearly rotatably supported on the screw which is rotatably supported relative to the housing.

#### Conclusion

9) THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

10) Any inquiry concerning this communication or earlier communications from the examiner should be directed to Devon C Kramer whose telephone number is 703-305-0839. The examiner can normally be reached on Mon-Fri 8-4.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jack Lavinder can be reached on 703-308-3421. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-3519 for regular communications and 703-308-3519 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-1134.

DK March 24, 2003

SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 3600